DATE: 01/15/2002

TIME: 18:55:54

OIPE

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 3 <110> APPLICANT: Croteau, Rodney B
                                                             Corrected Diskette Needed
         Bohlmann, Joerg
         Steele, Christopher L
         Phillips, Michael A
 8 <120> TITLE OF INVENTION: MONOTERPENE SYNTHASES FROM GRAND FIR (ABIES GRANDIS)
10 <130> FILE REFERENCE: WSUR18414
12 <140> CURRENT APPLICATION NUMBER: US/10/025,145
13 <141> CURRENT FILING DATE: 2001-12-19
15 <150> PRIOR APPLICATION NUMBER: 09/360,545
16 <151> PRIOR FILING DATE: 1999-07-26
18 <150> PRIOR APPLICATION NUMBER: 60/052,249
19 <151> PRIOR FILING DATE: 1997-07-11
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22 <151> PRIOR FILING DATE: 1998-07-10
24 <160> NUMBER OF SEQ ID NOS: 107
26 <170> SOFTWARE: PatentIn Ver. 2.0
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            Met Ala Leu Val Ser Ile Ser Pro Leu Ala Ser Lys Ser Cys
42
43
45 ctg cgc aag tcg ttg atc agt tca att cat gaa cat aag cct ccc tat
                                                                       158
46 Leu Arg Lys Ser Leu Ile Ser Ser Ile His Glu His Lys Pro Pro Tyr
                                                                  30
                                             25
    15
                        20
47
49 aga aca atc cca aat ctt gga atg cgt agg cga ggg aaa tct gtc acg
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50 Arg Thr Ile Pro Asn Leu Gly Met Arg Arg Gly Lys Ser Val Thr
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51
53 cct tcc atg agc atc agt ttg gcc acc gct gca cct gat gat ggt gta
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54 Pro Ser Met Ser Ile Ser Leu Ala Thr Ala Ala Pro Asp Asp Gly Val
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57 caa aga cgc ata ggt gac tac cat tcc aat atc tgg gac gat gat ttc
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58 Gln Arg Arg Ile Gly Asp Tyr His Ser Asn Ile Trp Asp Asp Asp Phe
59
            65
61 ata cag tot ota toa acg cot tat ggg gaa coo tot tac cag gaa cgt
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62 Ile Gln Ser Leu Ser Thr Pro Tyr Gly Glu Pro Ser Tyr Gln Glu Arg
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63
65 gct gag aga tta att gtg gag gta aag aag ata ttc aat tca atg tac
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66 Ala Glu Arg Leu Ile Val Glu Val Lys Lys Ile Phe Asn Ser Met Tyr
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67 95
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/025,145

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PATENT APPLICATION: US/10/025,145

DATE: 01/15/2002
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Output Set: N:\CRF3\01152002\J025145.raw

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71					115					120					125		
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74	Leu	Trp	Ile		Asp	Ser	Val	Glu		Leu	Gly	Ile	Ala		H1S	Phe	
75				130					135					140			E 4 O
77	aag	aac	gag	ata	aca	tca	gct	ctg	gat	tat	gtt	TTC	cgt	Tac	Tgg	gag	542
	Lys	Asn		Ile	Thr	Ser	Ala		Asp	туr	vaı	Pne	Arg	туг	ттр	GIU	
79			145			44.		150	~~~	t-	-++	~++	155	ast.	ot a	220	590
													act				330
	GIU		GLY	me	GTÀ	Cys	165	Arg	ASP	ser	116	170	Thr	кэр	пец	A511	
83	+ 00	160	<i>~~~</i>	++~	aaa	+++		act	ctt	cas	tta		ggg	tac	act	αta	638
06	Com	act mb~	geg	LLY	999	Dho	Ara	Thr	LAII	Δra	Leu	His	Gly	Tvr	Thr	Val	000
	175	TIII	нта	Leu	СТУ	180	лту	T 11 T	пец	nry	185	HIJ	OLI	- <u>1</u> -		190	
		cca	πaπ	att	tta		act	+++	саа	αat.	•	aat	gga	caq	ttt		686
90	Ser	Pro	Glii	Val	Len	Lvs	Ala	Phe	Gln	Asp	Gln	Asn	Gly	Gln	Phe	Val	
91	DCI	110	Olu	, 42	195					200	-		_		205		
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94	Cys	Ser	Pro	Gly	Gln	Thr	Ğlu	Gly	Glu	Ile	Arg	Ser	Val	Leu	Asn	Leu	
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97	tat	cgg	gct	tcc	ctc	att	gcc	ttc	cct	ggt	gag	aaa	gtt	atg	gaa	gaa	782
98	Tyr	Arg	Ala	Ser	Leu	Ile	Ala	Phe	Pro	Gly	Glu	Lys	Val	Met	Glu	Glu	
99			225					230					235				
																g att	830
				e Phe	e Ser	Thr			: Leu	Lys	s GIU			. GIr	т г	s Ile	
103		240				4	245					250			. + = +		878
105	CCa	gto	t Co	e get	CU	. tca	Caa	gag	j ald	l day	Dhe	. yu . Val	. aly I Mot	gao	ι ι αι ι Ττ	ggc Gly	070
			r sei	L ATC	теп	260		GIU	I TTE	: Tily :	265		L MCC	. Gre		270	
	255		. 202	at	- ttc			++0	r daa	σοε			- fac	ata	gac	aca	926
110	Trr	y Cac	, acc	r Act	. Leg	Pro	Arc	r Lei	, gao 1 Glu	ı Ala	a Arc	ı Ası	n Tvr	· Ile	Asr	Thr	•
111		, 1115	9 1111	L IIDI	275			, 200	. 0_0	280		,			285		
		gad	ı aaa	α σασ			gea	ı tgo	cto	aat	aaa	aat	gct	ggg	g aag	g aag	974
114	Leu	ı Glu	ı Lys	s Asp	Thr	Ser	Àla	Tr	Leu	ı Asr	Lys	. Ası	n Ala	Gly	, Lys	Lys	
115			-	290				_	295					300			
117	ctt	: tta	a gaa	a ctt	gca	aaa	ttg	gag	, ttc	aat	ata	ı ttt	c aac	tco	tta	a caa	1022
118	Let	ı Lei	ı Glu	ı Let	ı Ala	Lys	Leu	ı Glu	ı Phe	e Asr	ı Ile	e Phe	e Asn	Ser	Leu	ı Gln	
119			305					310					315				
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122	Glr	ı Lys	s Glu	ı Let	ı Glr	ı Tyr			ı Arg	J Tr	Tr			Sei	Asp	Leu	
123		320					325					33(1110
125	cct	aaa	a tto	g aca	ı ttt	gct	. cgg	cat	cgt	cat	gto	g gaa	a tto	tac	act	ttg	1118
		_	s Le	u Thi	c Phe			, HIS	s Arg	J HIS			ı Pne	TYL	7.111	350	
	335			h ~ 1L-1		340					345		. ++~	2012	ot:		1166
																a ggc a Gly	1100
131		a sei	ь су:	2 TT6	355		. ust	, ET(, nys	360		,(365		
		. aci	י אב י	a ato			ctt	atr	a aca			g dad	g αat	att		gac	1214
T) -	・しんし	, yu	- aac	a ace	, Lyl	- cut		- 9 - (_ ~~	. 90		, ,, ,, \			~ `	,	

RAW SEQUENCE LISTING

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	Thr	Phe		Tnr	me	ASP	GIU	390	GIU	пси	riic	1111	395			_1 -	
139			385	•	.		n+n		a 20	att	CCS	паа		atα	aaa	tat.	1310
141	aga	tgg	aat	tca	tca	gag	ala	gaa	Uac	Tou	Dro	Clu	Tur	Mot	Lvs	Cvs	
	Arg		Asn	Ser	Ser	Glu		Glu	HIS	Leu	PIO	410	1 Y T	ncc	цу		
143		400		_			405	4.		+	~~~	-	202	oga	aaa	aca	1358
145	gtg	tac	atg	gtc	gtg	ttt	gaa	act	gta	aat	gaa	CLG	mbr	Ara	Clu	Λla	1330
		Tyr	Met	Val	Val		GIU	Thr	Val	ASII	GIU	Leu	TIIT	Alg	GIU	430	
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149	gag	aag	act	caa	ggg	aga	aac	act	ctc	aac	tat	gtt	cya	aay	312	mrn	1400
150	Glu	Lys	Thr	Gln		Arg	Asn	Thr	Leu	Asn	Tyr	val	Arg	пуѕ	445	тъ	
151					435					440			L			2.2±	1454
153	gag	gct	tat	ttt	gat	tca	tat	atg	gaa	gaa	gca	aaa	tgg	atc	CCL	dat	1434
154	Glu	Ala	Tyr	Phe	Asp	Ser	Tyr	Met	Glu	Glu	Ala	Lys	Trp	11e	ser	ASII	
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105	cta	aga	tcc	aac	σac	aat.			atq	ctg	gcc	aag	aaa	cat	gct	ttt	1838
196	T.OII	Δra	Ser	Asn	Asp	Asn	Ile	Pro	Met	Leu	Āla	Lys	Lys	His	Ala	Phe	
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100	yac	Tla	Thr	. aya · Δra	Δla	T.e.i	His	His	Leu	Tvr	· Ile	Tyr	Arq	Asp	Gly	Phe	
		116	T 11T	пту	595		1110	22.20		600		*	_	_	605		
191		~++	~~~	220			aca	ааа	aaa			ato	qaa	aca	ctc	ctt	1934
193	agt	. yıl	ycc 11-	. aac	tur	yaa Clu	ψhγ	Tive	Titre	T.A11	Val	Met	Glu	Thr	Leu	Leu	
		val	Ald	610		GIU	T 11T	د ړ د	615					620	. 		
195		` 	 .			+22	at a	taac			ataa	ta a	taad				1982
	_						CLa	Lade	Jul	ucce	, a cad	. Luc U	Judy		-		
198	, Glu	Ser	Met	Leu	. Pue	:											

RAW SEQUENCE LISTING

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223 35 40 45													
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229 65 70 75 80													
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232 85 90 95													
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235 100 105 110													
237 Asp Gly Arg Leu Met Ser Ser Phe Asn Asp Leu Met Gln Arg Leu Trp													
238 115 120 125													
240 Ile Val Asp Ser Val Glu Arg Leu Gly Ile Ala Arg His Phe Lys Asn													
241 130 135 140													
243 Glu Ile Thr Ser Ala Leu Asp Tyr Val Phe Arg Tyr Trp Glu Glu Asn 244 145 150 155 160													
244 145													
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253 195 200 205													
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259 225 230 235 240													
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271 290 295 300													
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Output Set: N:\CRF3\01152002\J025145.raw

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				Tyr			-									ьуs
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279	Leu	Thr	Phe	Ala	Arg	His	Arg	His							Ala	Ser
				340										350		
282	Cys	Ile	Ala	Ile	Asp	Pro	Lys	His	Ser	Ala	Phe	Arg	Leu	Gly	Phe	Ala
283			355					360					365			
285	Lys	Met	Cys	His	Leu	Val	Thr	Val	Leu	Asp	Asp	Ile	Tyr	Asp	Thr	Phe
286	-	370	_				375					380				
				Asp									Ile	Lys	Arg	Trp
	_			-												400
				Glu												Tyr
															415	1
				Phe												Lvs
				420											مدت	210
				Arg											Glu	λla
			_	Arg									445	ııb	Giu	AIG
														λαn	C1 vr	Mtrr
	_		_	Ser									ser	ASII	СТУ	тут
	_			5 1				**					77_]	C	C	71.
				Phe												
	465							_					_			480
	-	_		Ala												Leu
				_							_				495	_
	Pro	Asp	Tyr	Ile	Leu	Lys	Gly	Ile		Phe	Pro	Ser	Arg		Asn	Asp
310				500					505	_				510		_
312	Leu	Ala	Ser	Ser	Phe	Leu	Arg		Arg	Gly	Asp	Thr		Cys	Tyr	Lys
313			515					520					525			
315	Ala	Asp	Arg	Asp	Arg	Gly	Glu	Glu	Ala	Ser	Cys		Ser	Cys	Tyr	Met
316		530					535					540				
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319	545	•				550					555					560
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322					565					570					575	
324	Ser	Asn	Asp	Asn	Ile	Pro	Met	Leu	Ala	Lys	Lys	His	Ala	Phe	Asp	Ile
325				580					585					590		
327	Thr	Arg	Ala	Leu	His	His	Leu	Tyr	Ile	Tyr	Arg	Asp	Gly	Phe	Ser	Val
328		_	595					600					605			•.
330	Ala	Asn	Lys	Glu	Thr	Lys	Lys	Leu	Val	Met	Glu	Thr	Leu	Leu	Glu	Ser
331		610	_			-	615					620				
	Met	Leu	Phe													
334	625															•
)> SI	EO II	ONO:	3											
				H: 20												
		2> TY	•													
_				ISM:	Ahie	es ai	randi	is								
)> FI				~ 54										
				KEY:	CDS											
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				INFO	•	•	-	ne 7	ኒር3 1	18 21	പ്രവർദ	nα r	jner	16 et	ntha	sė
747	~~~	, U	TITIL	THE	` TATALY 1	TON.) E		1	u	9 B		- U J	-1 -110	

gatgatgggt ttgatgcgca cggaacccta gatgaattga agctattcac tgaggctgtg 60 agaagatggg acctctcctt tacagacaac ttccccgatt acatgaaa 108

FAZ

Use of n and/or Xaa has been detected in the Sequence Listing. Raview the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

Per 1.823 d) Sequerce Rules, 4 levis ma remain for 1.2237 response. Insert another 12207 after 4th line and usert a 12237 on 5th line.

Important.

The types of errors shown exist throughout the Science Listing. Please check subsequent sequences for similar errors.

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/025,145
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Input Set : A:\18414seq.txt

Output Set: N:\CRF3\01152002\J025145.raw

L:12 M:270 C: Current Application Number differs, Replaced Application Number L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:963 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 L:983 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 L:1003 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 L:1023 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 L:1031 M:258 W: Mandatory Feature missing, <220> FEATURE: L:1031 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: L:1061 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 L:1077 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 L:1949 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 L:1969 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 L:1989 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 L:2027 M:259 W: Allowed number of lines exceeded, <223> Other Information: L:2036 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 L:2058 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 L:2072 M:259 W: Allowed number of lines exceeded, <223> Other Information: L:2081 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 L:2102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 L:2609 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:45 L:2609 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:45 L:2609 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 L:2623 M:259 W: Allowed number of lines exceeded, <223> Other Information: L:2626 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:46 L:2626 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:46 L:2626 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 L:2672 M:259 W: Allowed number of lines exceeded, <223> Other Information: L:2689 M:259 W: Allowed number of lines exceeded, <223> Other Information: L:2692 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:50 L:2692 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:50 $L\!:\!2692$ M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 L:2706 M:259 W: Allowed number of lines exceeded, <223> Other Information: L:2709 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:51 L:2709 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:51 L:2709 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 L:2723 M:259 W: Allowed number of lines exceeded, <223> Other Information: L:2726 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:52 L:2726 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:52 L:2726 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 L:2740 M:259 W: Allowed number of lines exceeded, <223> Other Information: L:2743 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:53 L:2743 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:53 L:2743 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 L:2786 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:56 L:2786 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:56 L:2786 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56